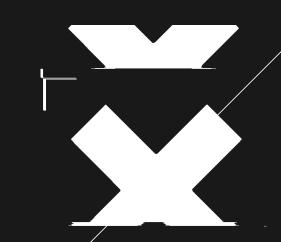
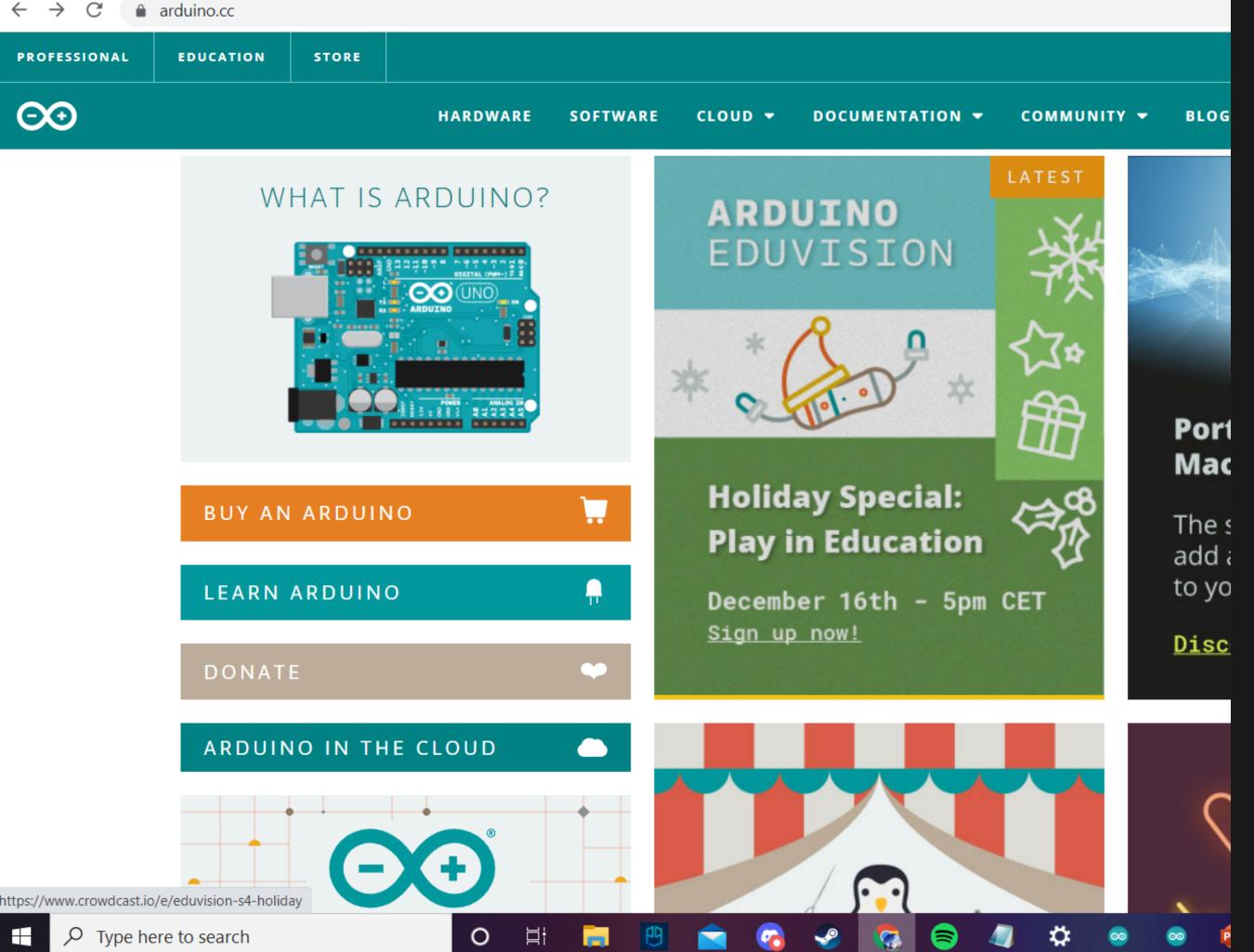
A Basic Guide for Beginners

ARDUINO IDE INSTALLATION GUIDE

How to get started on Arduino



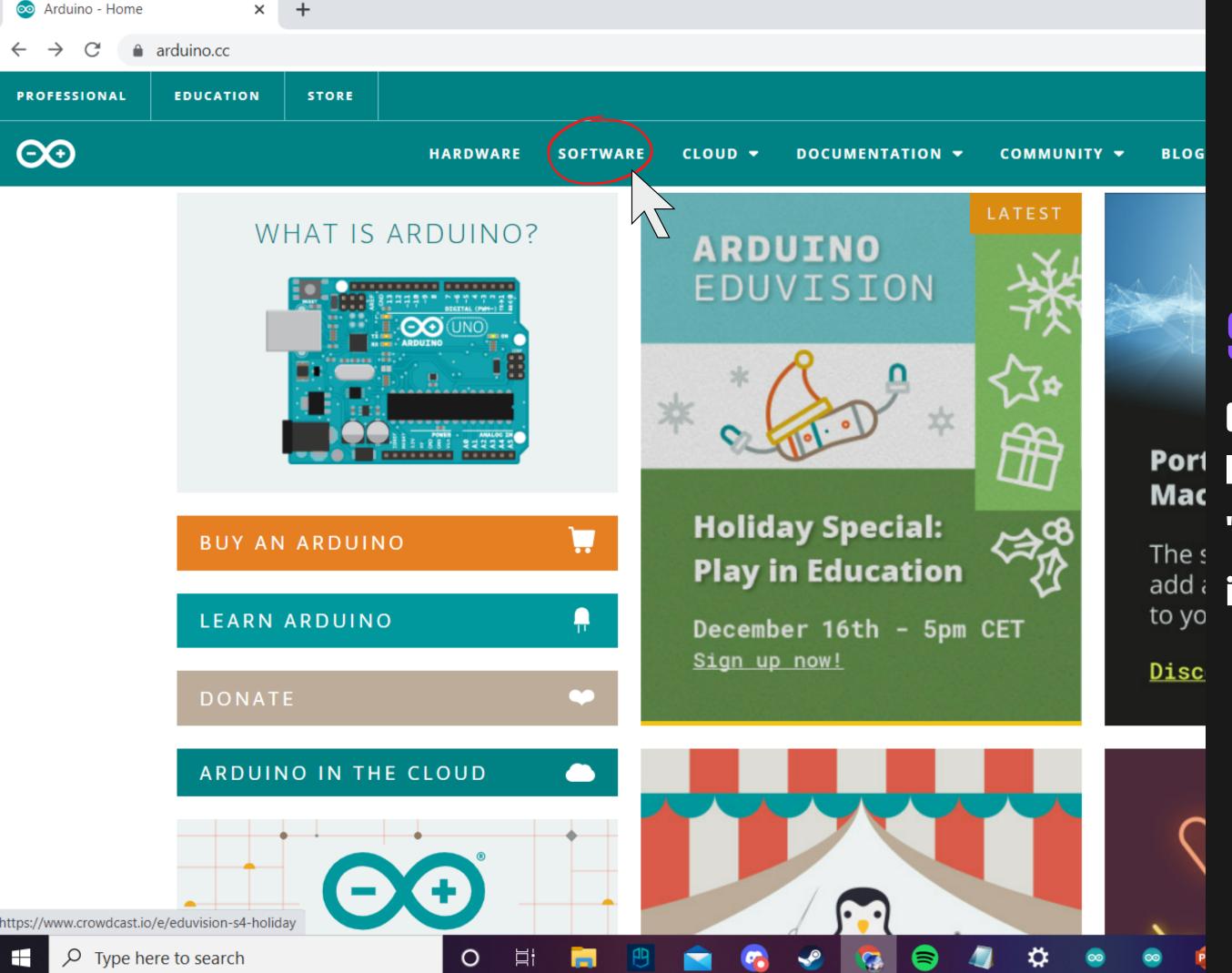


Arduino - Home

×

Step 1:

Port Go To arduino.cc



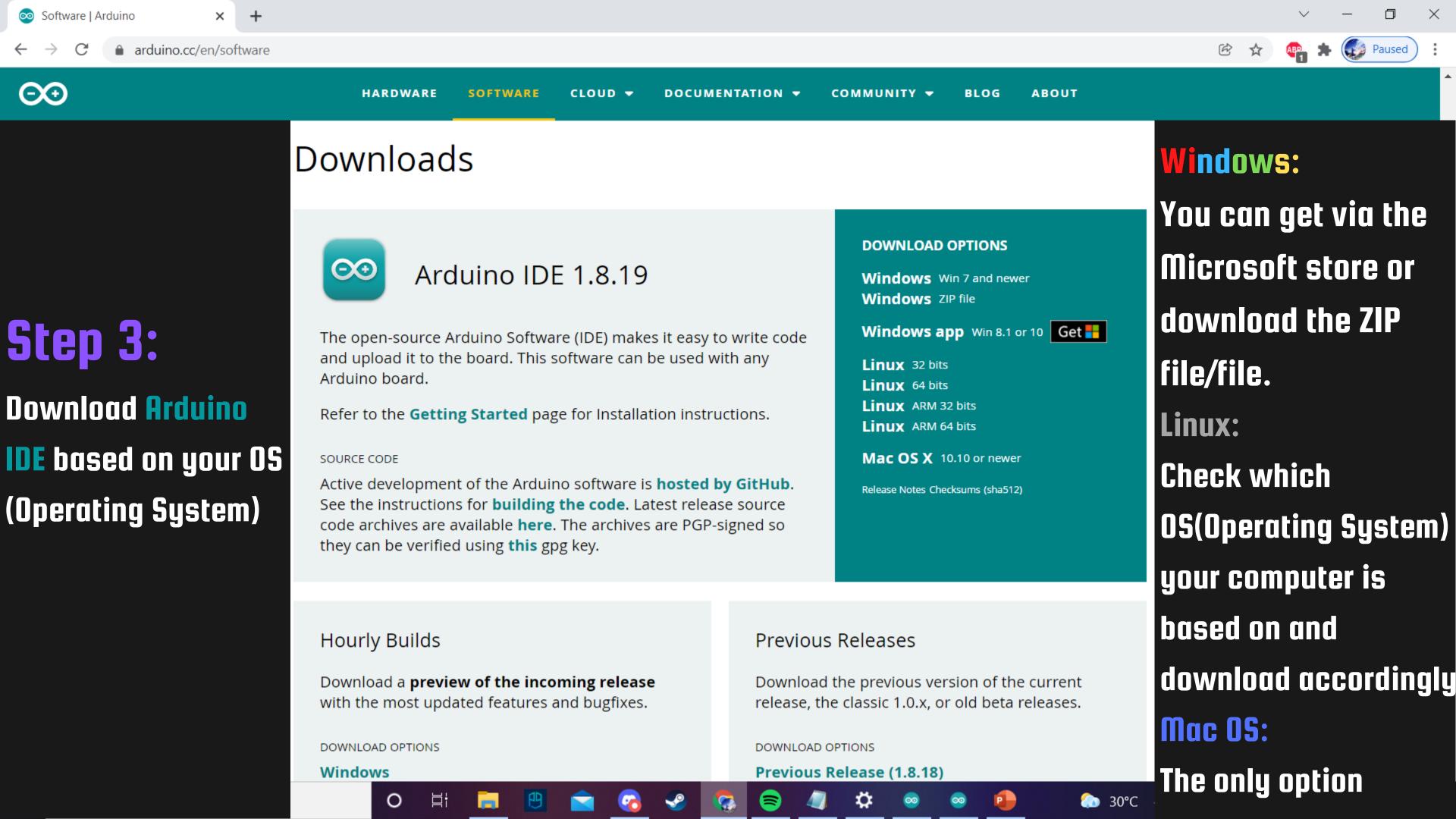
Step 2:

Click on "Software"

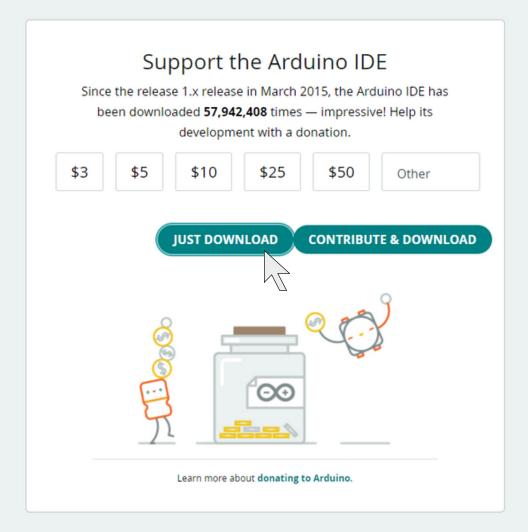
If you are unable to find the

"software" button, it should be

inside the = icon.





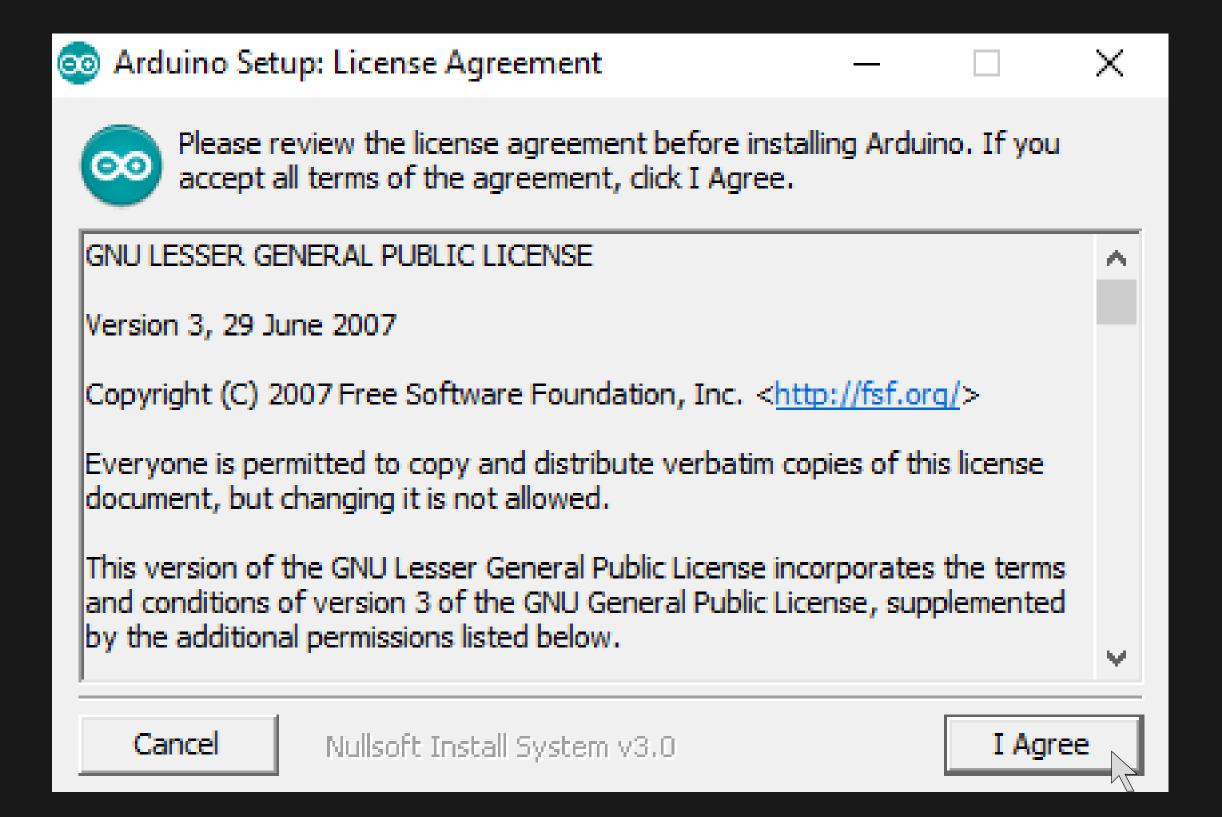


Step 4:

Click on "Just Download" If you want to donate, key the value you want to donate and click "Contribute & Download"

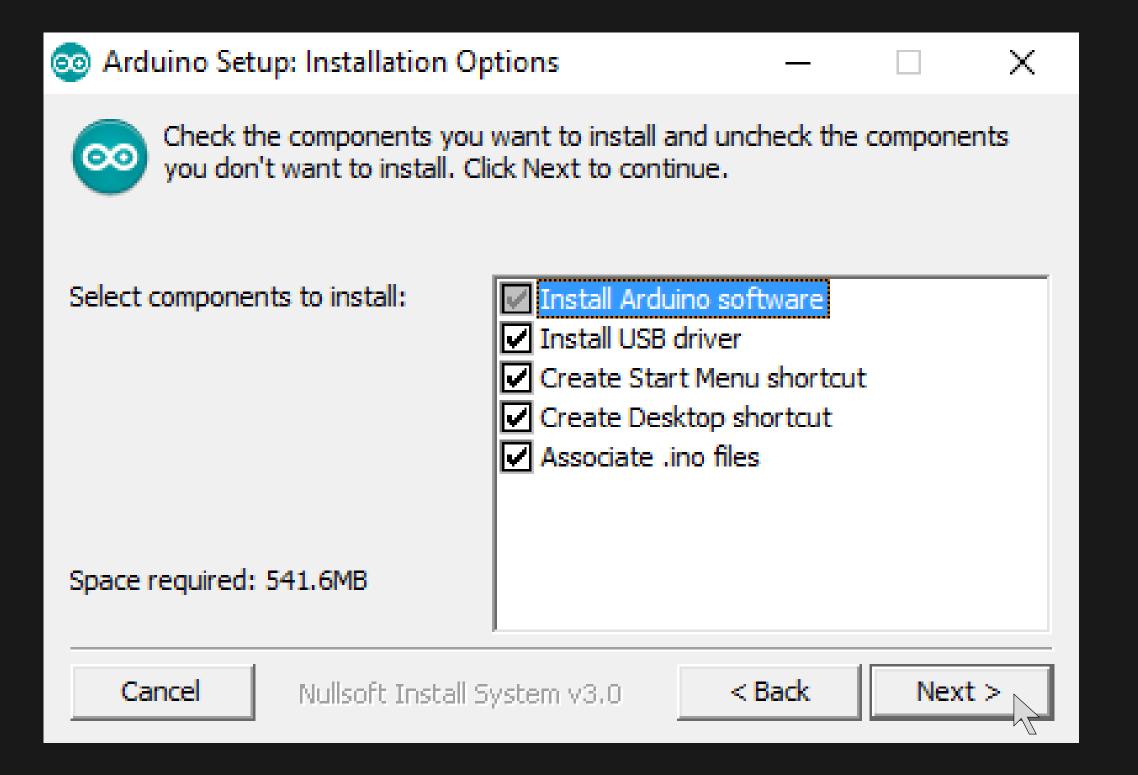
Once the download finish, the Installation starts. Click on the file where the **red** arrow is pointing to start the installation





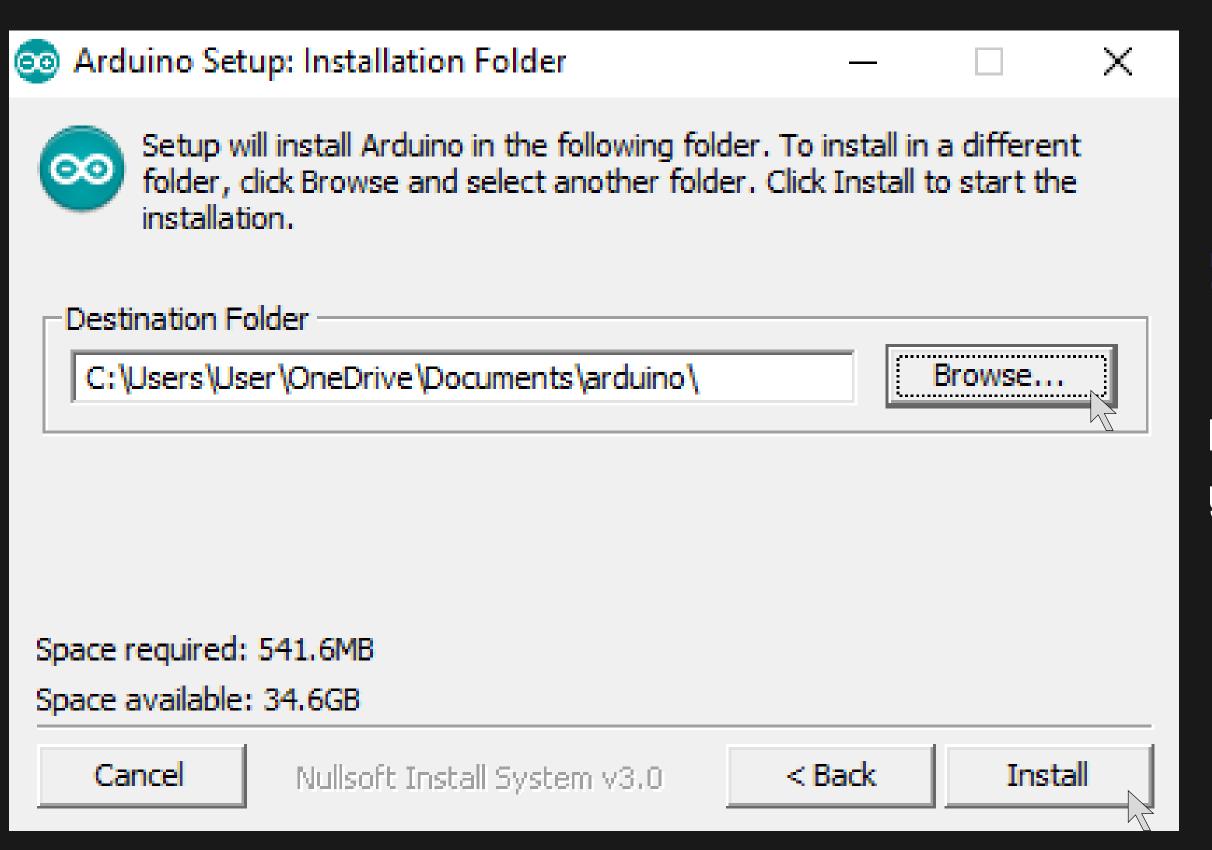
Step 5:

Read through the agreement and click "I agree"



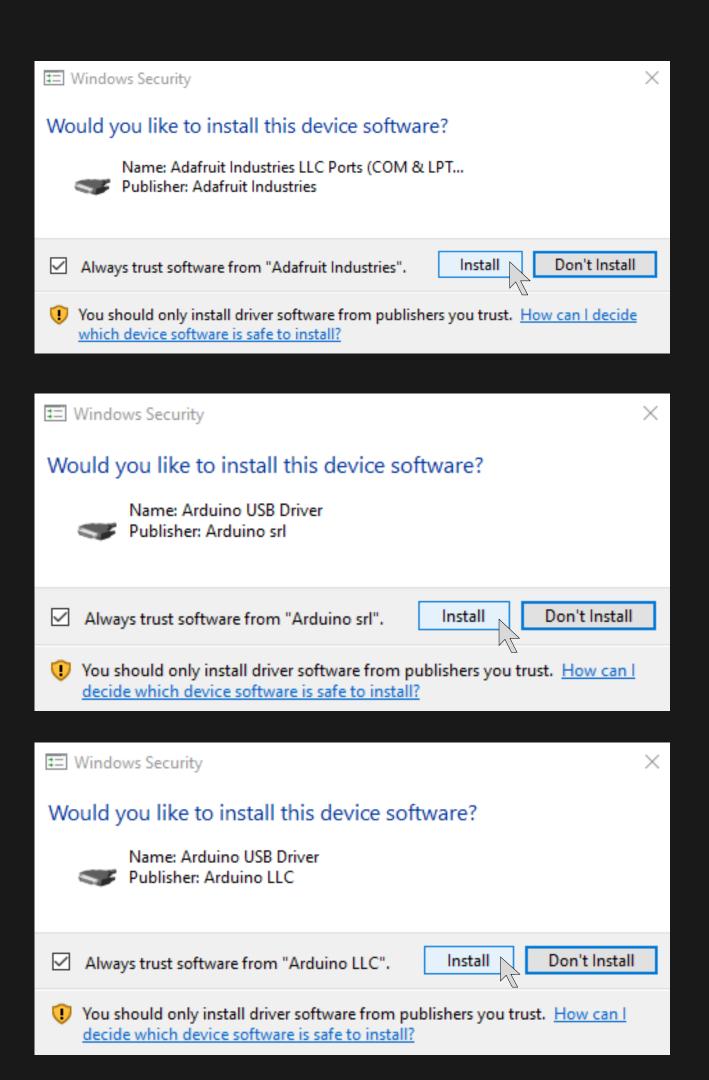
Step 6:

Make sure all the components are ticked and click "Next"



Step 7:

Click "Browse" to search for a place to install the files and once you are satisfied, click "Install".



Step 8:

Three Windows Security message should pop up, asking for permission to install. Click on "Install" on all 3 of the pop ups



ARUDINO IDE UI GUIDE

Now that you have installed the Arduino IDE. It is time to start tinkering with the Arduino. Before that, let me to introduce to the UI(User Interface) in the Arduino IDE and what they do.

SOME ARDUINO TERMINOLOGY

Source code

The code you write in your text editor

Sketch

Think of them as files for source codes.

Syntax Errors

Like most languages, programming languages have their own "Grammar rules". These are called syntaxes. Syntax error means your code has "grammatical errors". Eg. Missing semicolon after a statement or missing curly brackets.

```
void loop()
  // put your main code here, to run repeatedly:
  int x = 10;
 if(x > 5)
   Serial.print("x is larger than 5.\n");
   Serial.print("Hello World!")
   Serial.print("x is smaller than 5.\n");
   Serial.print("Hello World!");
```

```
sketch_dec27a§
```

```
void loop()
 // put your main code here, to run repeatedly:
 int x = 10;
 if(x > 5)
   Serial.print("x is larger than 5.\n");
   Serial.print("X is ")
   Serial.print(x);
  else
   Serial.print("x is smaller than 5.\n");
   Serial.print("X is ")
   Serial.print(x);
```

Text Editor:

This is where you are going to write your source code for the Arduino boards here.









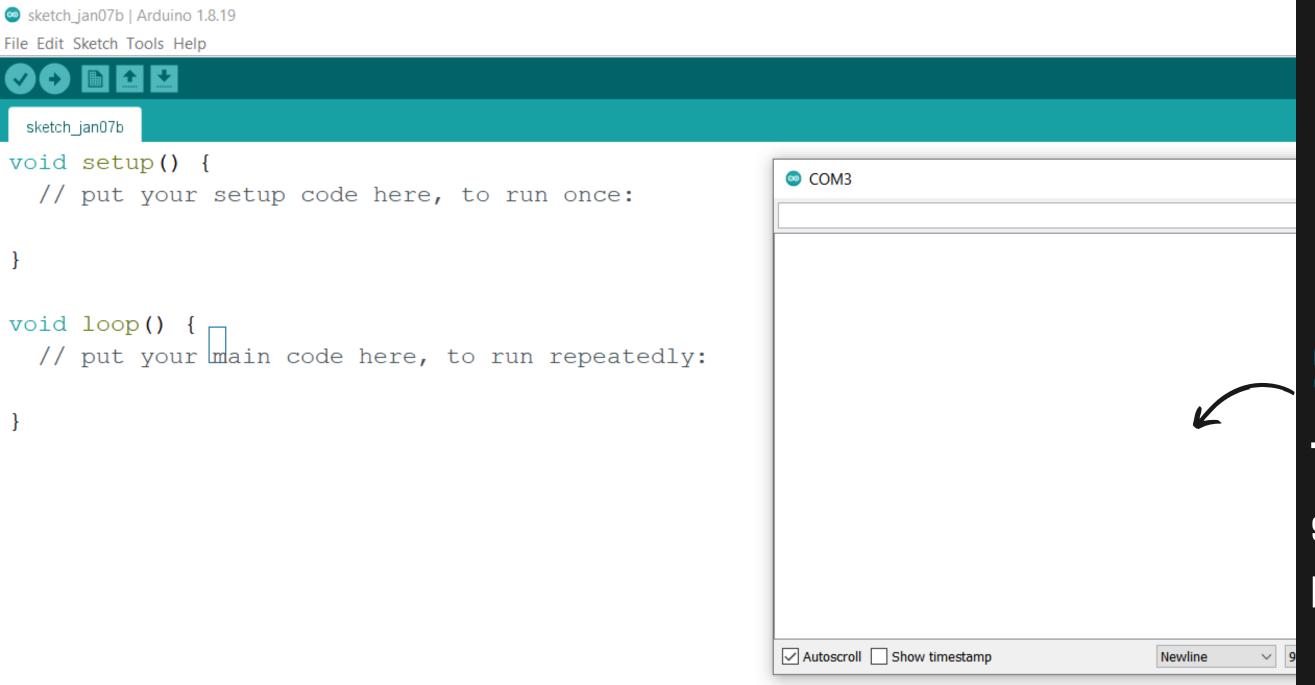












Serial Monitor:

This is where you are going to see the errors the compiler highlight. (For debugging issues)

Press Ctrl + Shift + M to access it



```
void loop()
  // put your main code here, to run repeatedly:
  int x = 10;
  if(x > 5)
   Serial.print("x is larger than 5.\n");
   Serial.print("X is ")
   Serial.print(x);
  else
   Serial.print("x is smaller than 5.\n");
   Serial.print("X is ")
   Serial.print(x);
```

Verify

This button will check your source code in the current sketch for any syntax errors.



```
void loop()
  // put your main code here, to run repeatedly:
  int x = 10;
  if(x > 5)
   Serial.print("x is larger than 5.\n");
   Serial.print("X is ")
   Serial.print(x);
  else
   Serial.print("x is smaller than 5.\n");
   Serial.print("X is ")
   Serial.print(x);
```

Upload (3):

This button will upload your source code in the current sketch to the Arduino board that is plugged in



sketch_dec27a§

```
void loop()
  // put your main code here, to run repeatedly:
  int x = 10;
  if(x > 5)
   Serial.print("x is larger than 5.\n");
   Serial.print("X is ")
   Serial.print(x);
  else
   Serial.print("x is smaller than 5.\n");
   Serial.print("X is ")
   Serial.print(x);
```

New 🗎

This button allows you to open a new sketch.



```
sketch_dec27a§
```

```
void loop()
  // put your main code here, to run repeatedly:
  int x = 10;
  if(x > 5)
   Serial.print("x is larger than 5.\n");
   Serial.print("X is ")
   Serial.print(x);
  else
   Serial.print("x is smaller than 5.\n");
   Serial.print("X is ")
   Serial.print(x);
```

Open 1:

This button opens up your saved sketch.



```
void loop()
  // put your main code here, to run repeatedly:
  int x = 10;
  if(x > 5)
   Serial.print("x is larger than 5.\n");
   Serial.print("X is ")
   Serial.print(x);
  else
   Serial.print("x is smaller than 5.\n");
   Serial.print("X is ")
   Serial.print(x);
```

Save 2:

This button save your current sketch

SOME TIPS ON USING THE ARDUINO IDE



There is some shortcuts you can use for the arduino IDE

One example is by holding down Ctrl/Cmd key and scrolling with your middle scorll mouse button, it will zoom in or out.

Press Ctrl/Cmd + Shift + M to access the serial monitor

and many more...!

More shortcuts can be found in : https://shortcutworld.com/Arduino/win/Arduino_Shortcuts



THE END